

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG — ELECTRIC LOGS — FILE X WATER SANDS — LOCATION INSPECTED — SUB. REPORT/ARD —L.A. ABANDONED 8-11-81* Application was resented by U.S.G.S.DATE FILED 12-31-79

LAND: FEE & PATENTED

STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN 14-20-603-355DRILLING APPROVED: 1-4-80

SPUDDED IN:

COMPLETED:

PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 8-11-81S. (L) Location abandoned well never drilledFIELD: Greater Aneth 3/86UNIT: RatherfordCOUNTY: San JuanWELL NO. Ratherford Unit 15-31API NO: 43-037-30525

LOCATION

670'FT. FROM (N) ~~(XX)~~ LINE.2140'FT. FROM (E) ~~(XX)~~ LINE.NW NE 21/4-1/4 SEC. 15

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

41S24E15PHILLIPS PETROLEUM COMPANY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 14-20-603-355
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo - Tribal
2. NAME OF OPERATOR PHILLIPS PETROLEUM COMPANY		7. UNIT AGREEMENT NAME SW - I - 4192
3. ADDRESS OF OPERATOR P.O. BOX 2920, CASPER, WYOMING 82602		8. FARM OR LEASE NAME Ratherford Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 670' FNL 2,140' FEL (NW/NE) At proposed prod. zone SAME		9. WELL NO. 15 - 31
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 5-1/2 MILES SOUTH OF MONTEZUMA CREEK, UTAH		10. FIELD AND POOL, OR WILDCAT Greater Aneth
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) Lease Line. Approx. 7/8 mile from Ratherford Unit	16. NO. OF ACRES IN LEASE 2,160	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 15 - T41S - R24E
17. NO. OF ACRES ASSIGNED TO THIS WELL 40	18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. #10-34	12. COUNTY OR PARISH SAN JUAN
19. PROPOSED DEPTH 5,700	20. ROTARY OR CABLE TOOLS ROTARY	13. STATE UTAH
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4,503 UNGRADED GROUND		22. APPROX. DATE WORK WILL START* APRIL 1980

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48	100'	100 cu. ft. (to surface)
12-1/4"	9-5/8"	36	1,600'	750 cu. ft. (to surface)
8-3/4"	7 "	20	5,700'	200 cu. ft. (1000' fill up)

APPROVAL IS REQUESTED TO DRILL THIS DESERT CREEK DEVELOPMENT OIL WELL TO INCREASE THE ULTIMATE RECOVERY FROM THE RATHERFORD UNIT.

BOP EQUIPMENT WILL BE OPERATED DAILY AND TESTED WEEKLY.

RECEIVED
DEC 31 1979

DIVISION OF
OIL & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE OPERATIONS SUPERINTENDENT DATE 12-17-79

(This space for Federal or State office use)

PERMIT NO. 43-037-30525

APPROVAL DATE January 4, 1980

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

CC: 3-USGS-Farmington, NM
2-Utah O&GCC-S.L.C., UT
1-Bartlesville Production
1-J.P. Denny
1-T.M. Isaacs

*See Instructions On Reverse Side

COMPANY PHILLIPS PETROLEUM COMPANY

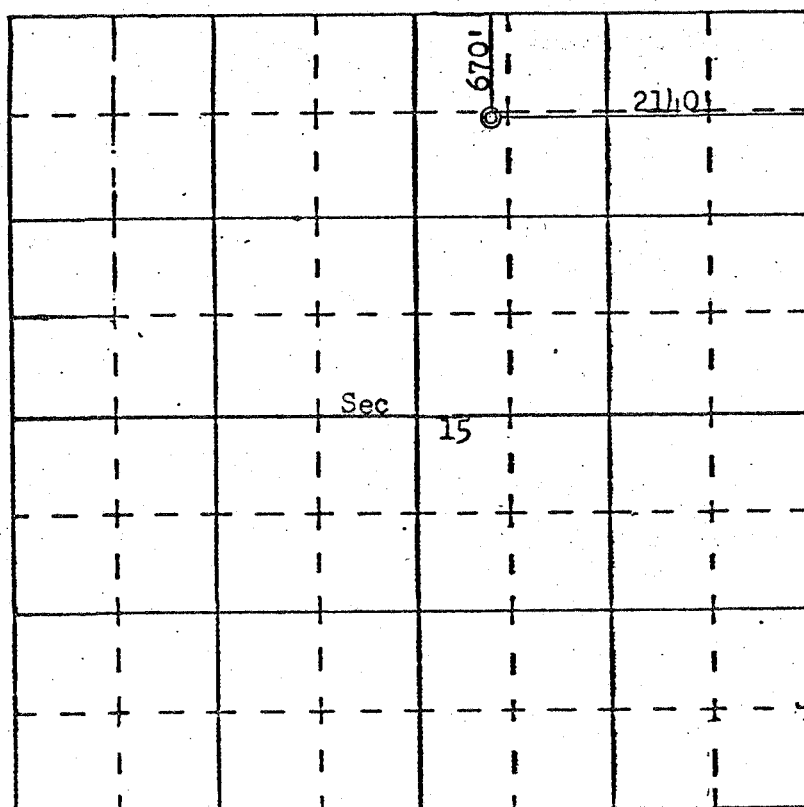
LEASE RATHERFORD UNIT WELL NO. 15-31

SEC. 15, T. 41S, R. 24E

SAN JUAN COUNTY, UTAH

LOCATION 670'FNL 2140'FEL

ELEVATION 4503 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPER-
VISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Fred B. Kerr Jr.
Fred B. Kerr Jr.

SEAL:

Registered Land Surveyor.

#3950

SURVEYED May 23, 1978

Decem 13, 1979



PHILLIPS PETROLEUM COMPANY

P.O. Box 2920
Casper, Wyoming 82602

RE: Phillip's Ratherford-Unit
San Juan Co., Utah
Infill-Drilling.

United States Dept. of Interior
Geological Survey
P.O. Box 959
Farmington, N.M. 87401

ATTN: Mr. J. Sims, Dist. Engr.

Dear Mr. Sims:

The following multi-point surface use and operations plan covering the drilling, completion and operation of development well, Ratherford Unit #15-31, operated by Phillips Petroleum Company is submitted for your approval.

1. Existing lease roads are shown on the attached area lease road map. Access to existing lease roads is south of the town of Montezuma Creek, Utah.
2. Planned access roads are shown on the attached maps. Approximately 1,600' of new lease road will be built. This road will be to the South-West to Well #15-22. All road construction will have a grade of less than 5%. No fences or cattle guards are in the area of the proposed road or drilling location.
3. Locations of existing wells are shown on the attached maps.
4. Production from the proposed well will be piped to the Ratherford Unit, Satellite #15, located in the center of Sec. 15-41S-24E San Juan Co. Utah. The flowline will be of welded steel construction and parallel the proposed road. The produced fluid then goes from Satellite #15, to the Ratherford Unit Battery #1.
5. Drilling water will be trucked from the SE/4 Sec. 5-41S-24E, San Juan Co., Utah; at existing wells, the water is pumped through an existing line to the proposed loading point.
6. All construction materials will be native soil from the drilling location and proposed road area.
7. Waste material will be disposed of in a burial pit located on the drilling location. The pit will be approximately 10' X 20' X 10' and will be fenced with small mesh wire, during drilling operations. The drilling location will be cleared of all trash and burial pit covered immediately after moving the drilling rig off location.

Drilling fluids and cuttings will be held in a fenced unlined reserve pit until dry enough to cover, upon abandonment, the reserve pit area will be formed to the natural topography and seeded.

A dry chemical toilet will be used during drilling operations.

8. No ancillary facilities are needed.

Page Two

December 13, 1979

J. Sims, Dist, Engr.

RE: RATHERFORD UNIT-Infill-Drilling

9. A typical well-site layout is attached. Laydown of the rotary drilling rig will be to the West.
10. All disturbed areas, not needed for production operations, will be shaped to the natural topography and seeded.
11. The proposed drilling location is composed of sandy soil and rounded rocks. The location has a gentle slope from the North to the South with a steeper slope to the South of the reserve pit. Vegetation in the area is bitter brush, snake weed, yucca, and sparce grass.

The proposed drilling location and all access roads are on the Navajo Indian Reservation.

An Archeological survey of the proposed well site has been completed and clearance has been granted. (REF: Dept. of Interior; H-24 (SWR) CR).

12. Lessee's or Operator's Representative: T.M. Isaacs
P.O. Box 1150
Cortez, CO 81321
Phone: 303-565-3426

13. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by drilling company awarded the drilling contract and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

12-17-79

DATE

D.J. Fisher

D.J. FISHER, OPERATIONS SUPT.

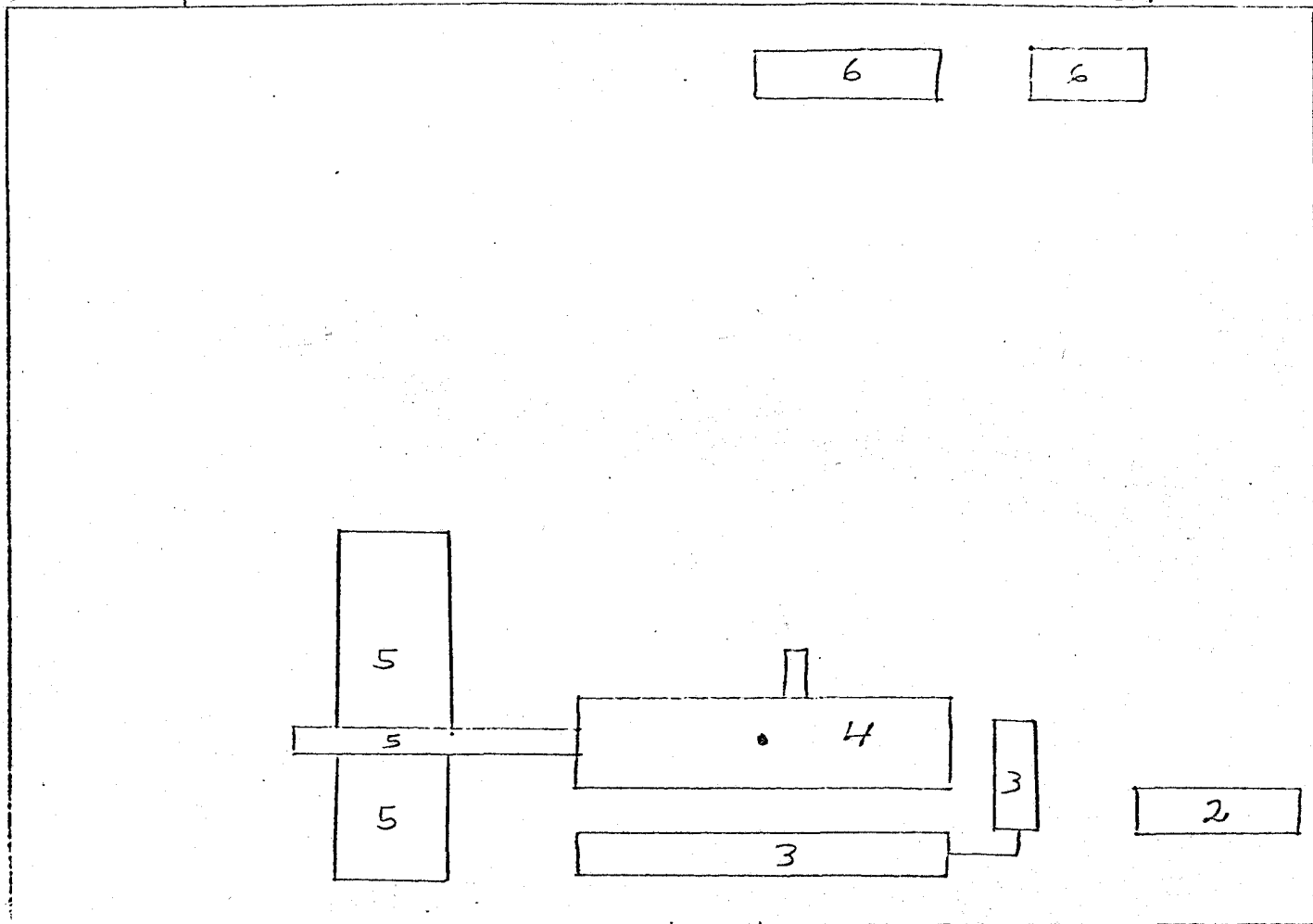
ESTIMATED FORMATION TOPS FOR RATHERFORD UNIT

WELL # 15-31

CHINLE.....	1,290'
SHINARUMP.....	2,180'
MOENKOPI.....	2,254'
CUTLER.....	2,398'
HERMOSA.....	4,316'
PARADOX.....	5,304'

N

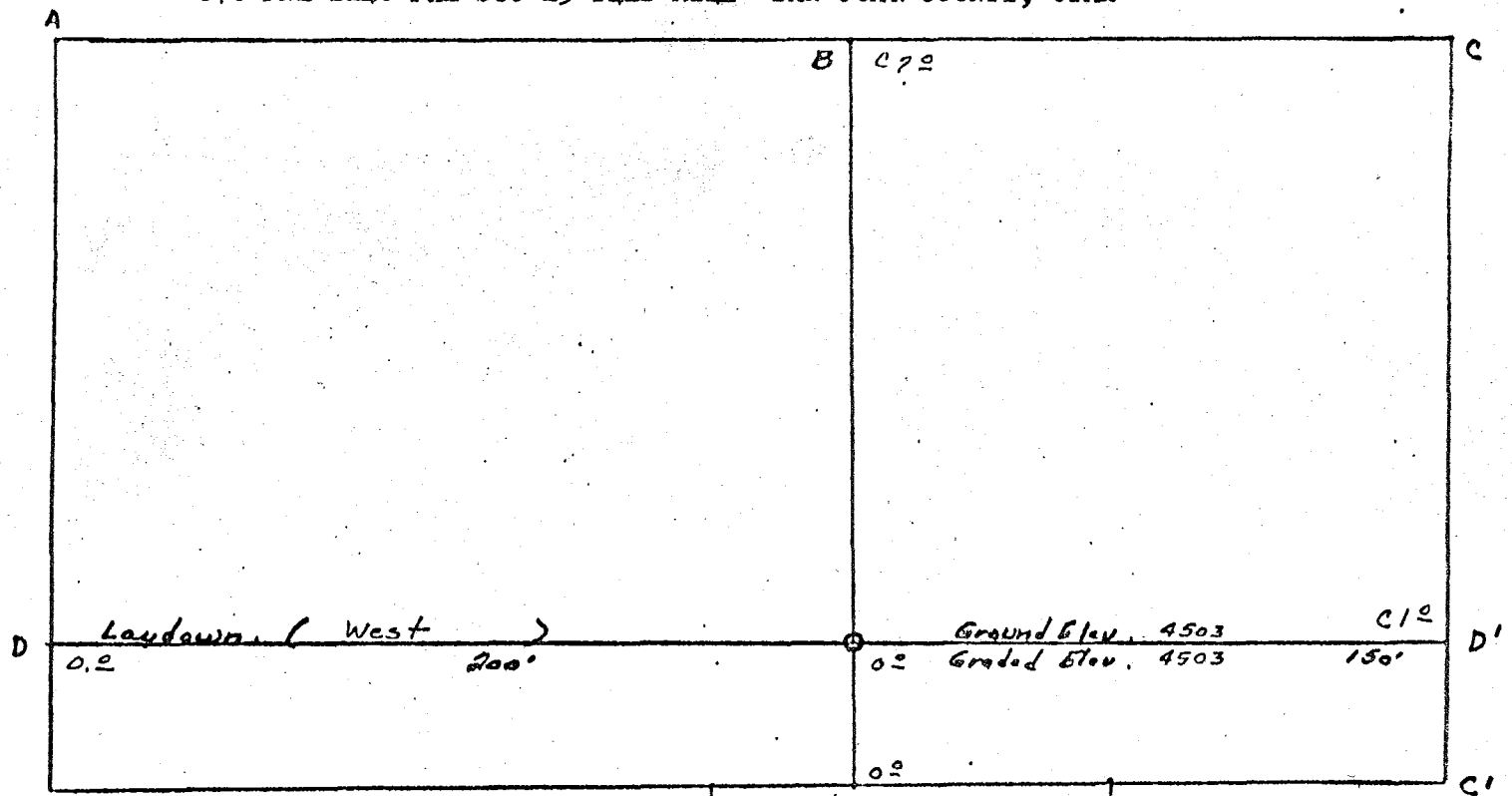
RATHERFORD UNIT WELL # 15-31



1. RESERVE PIT
2. TRASH PIT
3. CIR. PITS & PUMP
4. RIG
5. CATWALK & PIPE RACKS
6. TRAILERS

TYPICAL RATHERFORD UNIT DRILLING RIG LAY OUT

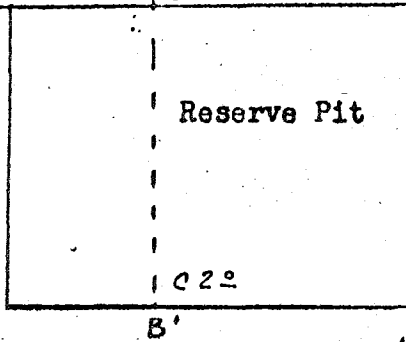
OUTLINE OF LOCATION APPROXIMATELY 250' X 350'
NO SCALE ON UNITS



Scale: 1" = 50'

Vert 1" = 40' A-A' Horiz 1" = 100'

4510			
4500			
4490			



Vert 1" = 40' C-C' Horiz 1" = 100'

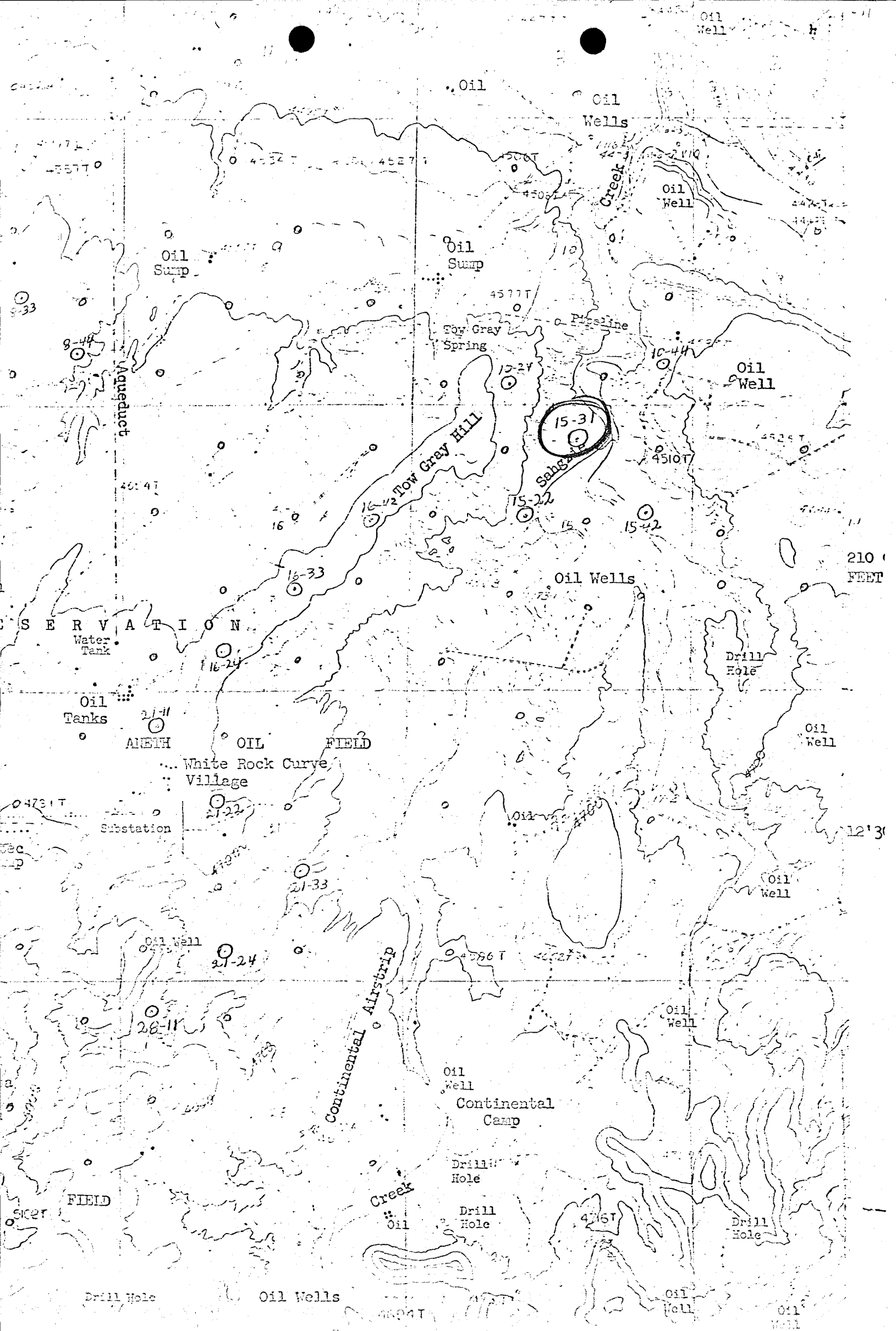
Vert 1" = 40' B-B' Horiz 1" = 100'

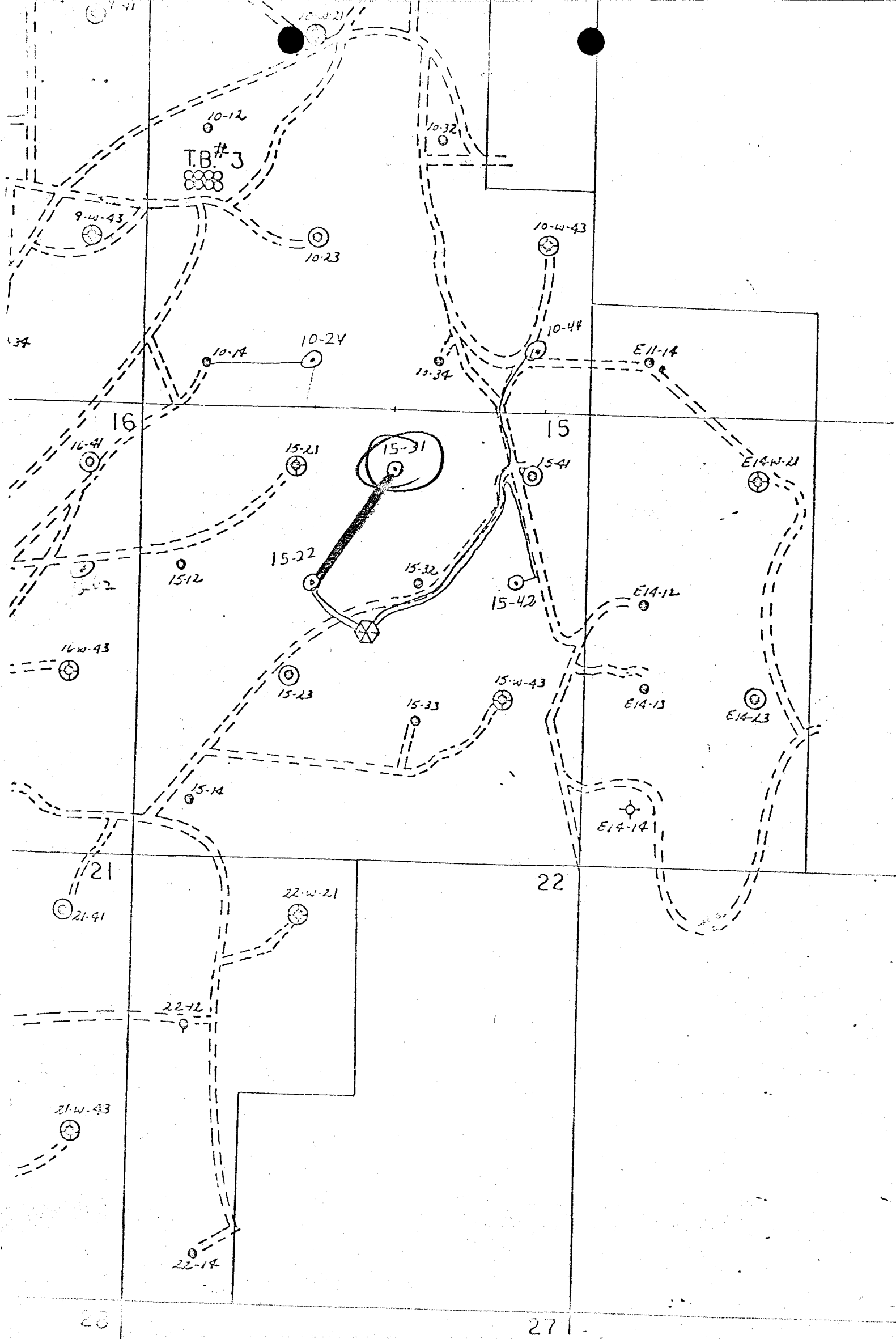
4510			
4500		4503	
4490			

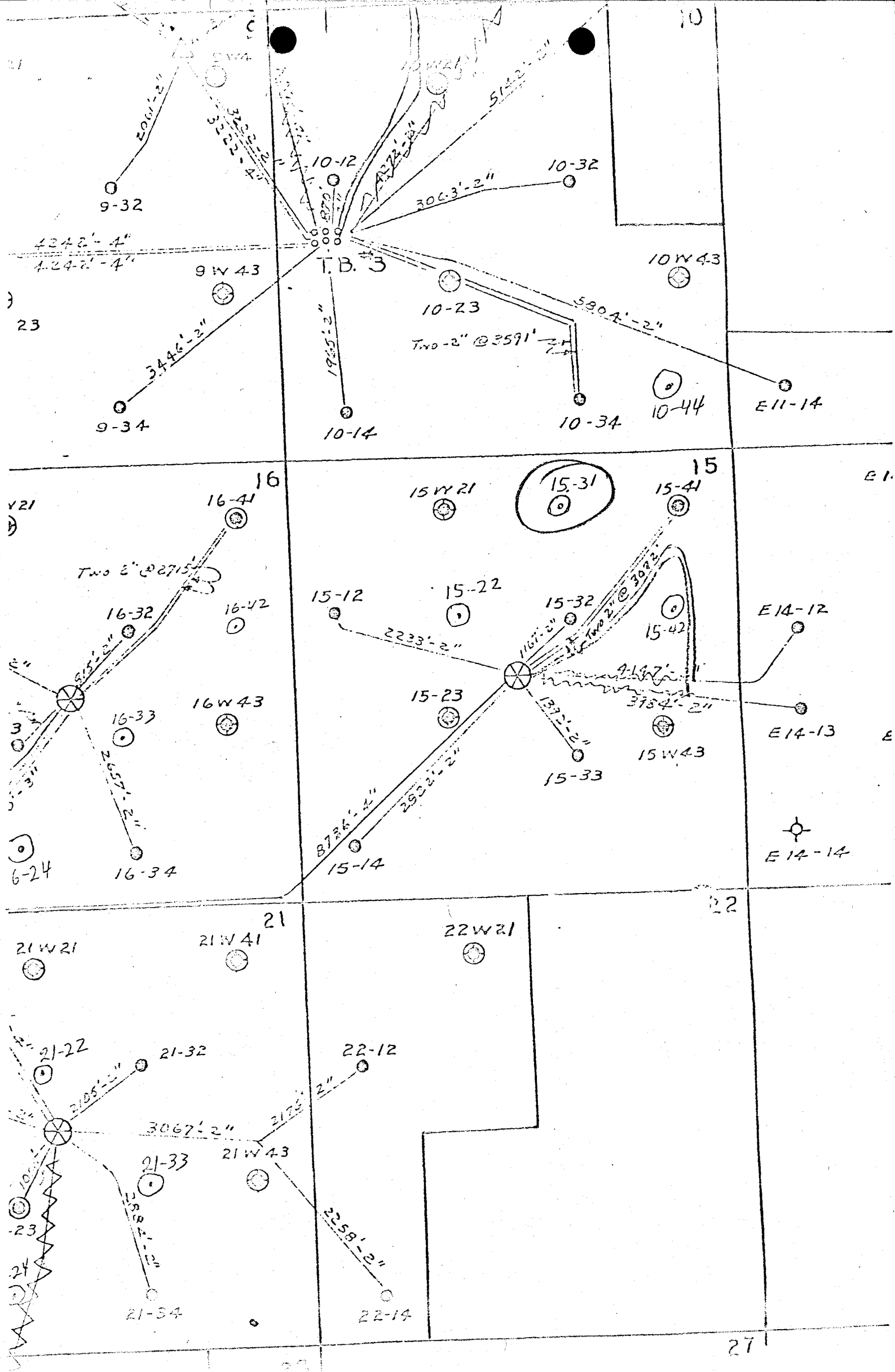
Vert 1" = 40' D-D' Horiz 1" = 100'

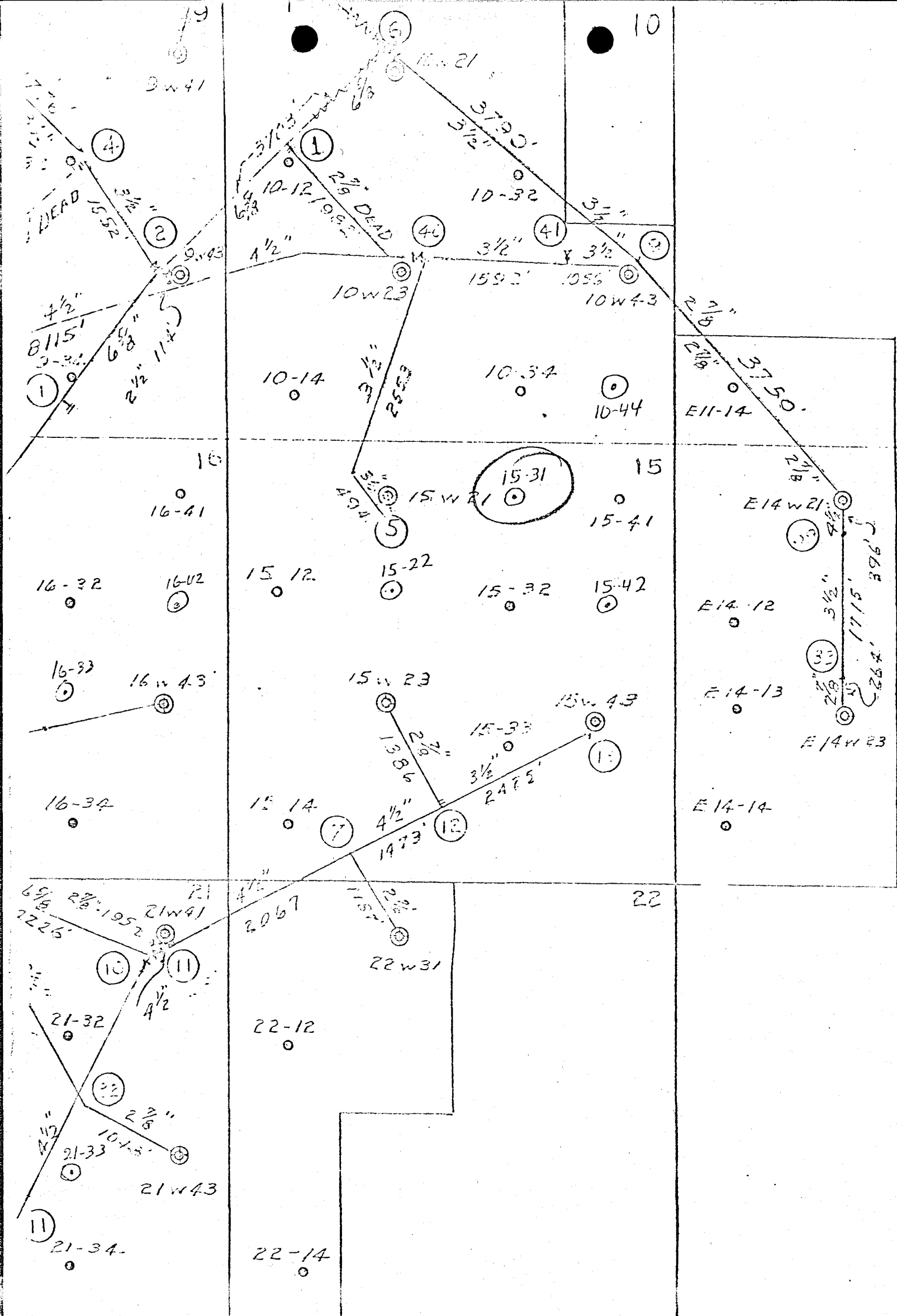
4510			
4500		4503	
4490			

Kerr Land Surveying
Date: May 23, 1978
[Signature]

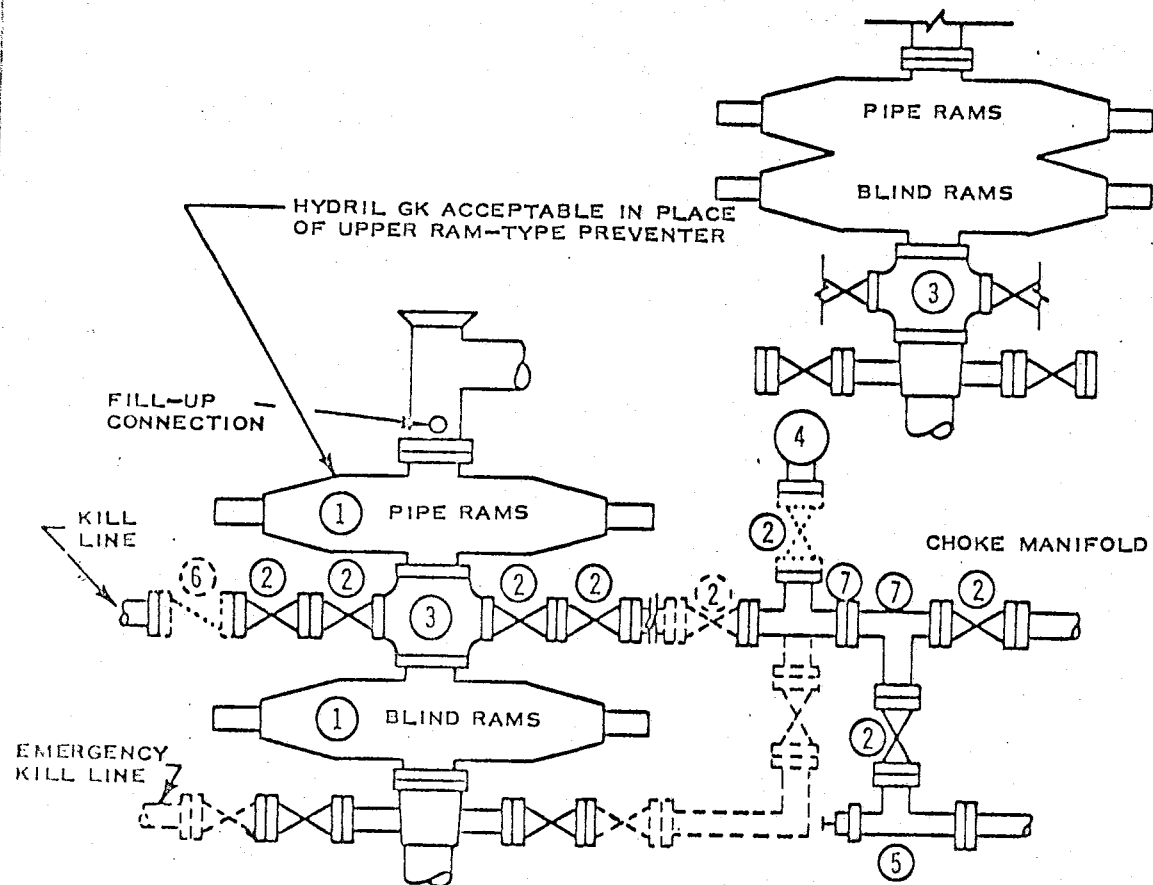








DOUBLE PREVENTER OPTION



- ① SERIES 900 RAM-TYPE BOP
- ② 2" SERIES 900 VALVE
- ③ SERIES 900 DRILLING SPOOL
- ④ 2" MUD PRESSURE GAUGE
- ⑤ 2" SERIES 900 CHOKE
- ⑥ 2" SERIES 900 CHECK VALVE
- ⑦ 2" SERIES 900 STEEL TEE

NOTES:

1. 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
2. VALVES MAY BE EITHER HAND OR POWER OPERATED BUT, IF POWER OPERATED, THE VALVES FLANGED TO THE BOP RUN MUST BE CAPABLE OF BEING OPENED AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPABLE OF BEING OPENED MANUALLY

..... OPTIONAL EQUIPMENT

PHILLIPS PETROLEUM COMPANY

3000 PSI WORKING PRESSURE
BLOWOUT PREVENTER HOOK-UP
(SERIES 900 FLANGES OR BETTER)

**** FILE NOTATIONS ****

DATE: January 3, 1980
OPERATOR: Phillips Petroleum Company
WELL No. Ratherford Unit #15-31
LOCATION: SEC. 15 T. 41S R. 24E COUNTY San Juan

FILE PREPARED: _____

ENTERED ON NID: _____

CARD INDEXED: _____

COMPLETION SHEET: _____

✓ API NUMBER: ⁰³⁷ 43-015-30525

CHECKED BY:

GEOLOGICAL ENGINEER: _____

PETROLEUM ENGINEER: _____

DIRECTOR: OK unit well 2

APPROVAL LETTER:

BOND REQUIRED: _____

SURVEY PLAT REQUIRED: _____

ORDER No. _____

O.K. RULE C-3 _____

RULE C-3(c), TOPOGRAPHIC EXCEPTION/COMPANY OWNS OR CONTROLS ACREAGE
WITHIN A 660' RADIUS OF PROPOSED SITE _____

LEASE DESIGNATION Ind Unit PLOTTED ON MAP ✓

APPROVAL LETTER WRITTEN ✓

ltm

NE
PI

January 4, 1980

Phillips Petroleum Company
P.O. Box 2920
Casper, Wyoming 82602

Re: Well No. Ratherford Unit #15-31
Sec. 15, T. 41S, R. 24E.,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify one of the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30525.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/btm

cc: USGS

July 20, 1981

Phillips Petroleum Company
P. O. Box 2920
Casper, Wyoming 82602

Re: See Attachment

Gentlemen:

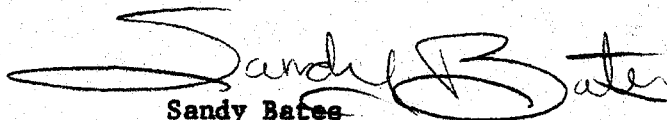
In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling these locations at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

A handwritten signature in cursive script, appearing to read "Sandy Bates". The signature is written in dark ink and is positioned above the typed name and title.

Sandy Bates
Clerk-Typist

/lm

1. Well No. Ratherford Unit 13-12
Sec. 13, T. 41S, R. 23E
San Juan County, Utah
2. Well No. Ratherford Unit 13-23
Sec. 13, T. 41S, R. 23E
San Juan County, Utah
3. Well No. Ratherford Unit 15-31
Sec. 15, T. 41S, R. 24E
San Juan County, Utah